

		TM1
hASIC1a	MELKAE ^A EEEEVGGVQPVSIQAFASSSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCV	
mASIC1a	MELKTE ^T EEEEVGGVQPVSIQAFASSSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCV	
	70	
hASIC1a	CTERVQYYF ^H YHHVTKLDEVAASQLTFPAVTLCNLNEFRFSQVSKNDLYHAGELLALLNN	
mASIC1a	CTERVQYYF ^C YHHVTKLDEVAASQLTFPAVTLCNLNEFRFSQVSKNDLYHAGELLALLNN	
hASIC1a	RYEIPDTQMADEKQLEILQDKANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFRGE ^V C	
mASIC1a	RYEIPDTQMADEKQLEILQDKANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFRGE ^A C	
hASIC1a	AEDFKVVFTRYGKCYTFNSG ^R DGRPRLKTMKGGTGNGLEIMLDIQQDEYLPVWGETDETS	
mASIC1a	AEDFKVVFTRYGKCYTFNSG ^Q DGRPRLKTMKGGTGNGLEIMLDIQQDEYLPVWGETDETS	
		285
hASIC1a	FEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFV ^A CQEQRLIYLP ^P PWGTCKAVTMDSDLD	
mASIC1a	FEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFV ^S CQEQRLIYLP ^S PWGT ^C NAV ^T MDS--D	
hASIC1a	FFDSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDQEY	
mASIC1a	FFDSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDQEY	
hASIC1a	CVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETI	
mASIC1a	CVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETI	
		TM2
hASIC1a	EQKKAYEIA ^G LLGDIGGQMG ^L FIGASILT ^V LELFDYAYEVIK ^H KL ^R CRGK ^C QKEAKR ^S SA	
mASIC1a	EQKKAYEIA ^G LLGDIGGQMG ^L FIGASILT ^V LELFDYAYEVIK ^R HL ^R CRGK ^C QKEAKR ^N SA	
hASIC1a	DKGVALSLDDV ^K RHN ^P CE ^S LRGHPAGMTYAANILPHHPARGTFEDFT ^C	
mASIC1a	DKGVALSLDDV ^K RHN ^P CE ^S LRGHPAGMTYAANILPHHPARGTFEDFT ^C	

Supplemental Figure 1. Alignment of human and mouse ASIC1a protein sequences.

Gray regions indicate the first and second transmembrane region (TM1 and TM2, respectively). The two key positions, 70 and 285, are highlighted in yellow.